

**United States Department of Agriculture  
Animal and Plant Health Inspection Service  
Center for Veterinary Biologics  
P. O. Box 844  
Ames, IA 50010**

1. **Reagent Name:** *Escherichia coli* Anti-K88 Pilus Monoclonal Antibody (K88 MAb)
2. **Strain or Source:** Hybridoma 21BA1-1H1
3. **Lot Number:** IRP 499-05
4. **Fill Date:** January 2005
5. **Expiration Date:** Not applicable

**Precautions:** There are no known hazards associated with the use of this reagent.

6. **Intended Use:** For use in potency testing of *E. coli* biologicals containing the K88 antigen, according to **Supplemental Assay Method (SAM) 621**.
7. **Instructions for Use:** Dilute the K88 MAb 1:11,000 in carbonate-bicarbonate coating buffer 0.05M, pH 9.6) and use immediately, according to **SAM 621**.
8. **Test of Reagent:** The K88 MAb was shown to be specific for the “a” subunit of the K88 pilus antigen. It exhibits minimal nonspecific binding (background) in assays performed according to **SAM 621**. The optimal use dilution was determined by titration, using the assay described in **SAM 621**.
9. **Container Size, Type, Weight, or Volume:** 250-μL aliquots in microfuge vials (Lot size: 185 vials).
10. **Storage Conditions:** -70°C or lower for long term storage. May be held at 2° - 7°C for several weeks.
11. **CVB Technical Contact:** Bacteriology Section, Center for Veterinary Biologics, (515) 337-6140 or FAX (515) 337-7673.
12. **Origin and Passage History:** Raw ascites fluid was purchased from Molecular Genetics Inc., Minnetonka, Minnesota. Hybridoma 21BA1-1H1, secreting anti-K88 antibody specific for a common “a” epitope of all three K88 antigenic variants, was produced from a fusion of murine spleen cells (immunized with all three K88 pili) with mouse plasmacytoma cells (NS-1) on September 29, 1983, at Molecular Genetics.

**13. Method of Preparation:** Raw ascites fluid was purchased from Molecular Genetics Inc. The MAb was filter-sterilized, aliquoted, and stored at -70°C or lower.

**14. Other:**

**Restrictions:** To be used only in biological potency testing according to **SAM 621**.

Reagent orders and feedback should be sent *including phone number* to the following email address: [CVB@aphis.usda.gov](mailto:CVB@aphis.usda.gov)

Reagent orders forms (APHIS 2018) are available from:  
[http://www.aphis.usda.gov/animalhealth/cvb\\_forms](http://www.aphis.usda.gov/animalhealth/cvb_forms)

**REVISED:** 18Apr14 alb